Disclosure AUS8-2000-0539
Prepared for and/or by an IBM Attorney - IBM Confidential

Created By: David Kumhyr   Created On: ▮▮▮▮▮▮▮▮▮▮
Last Modified By: Nancy Werchan   Last Modified On: ▮▮▮▮▮▮▮▮

Required fields are marked with the asterisk (*) and must be filled in to complete the form.

*Title of disclosure (in English)
Conversational convergence software

Summary

Status	Final Decision (File)
Docket Family	AUS9-2001-0402
Processing Location	AUS
Functional Area	58 - TIVOLI (B. Yellin,David Murphy, L. Wilczak, J. Ciulla, Jim Hilbert)
Attorney/Patent Professional	Leslie Van Leeuwen/Austin/IBM
IDT Team	John Sweitzer/Tivoli Systems; Sebastian Hassinger/Tivoli Systems; Nicole Harbour/Tivoli Systems; Doug A Wood/Tivoli Systems; Peg MacPhail/Tivoli Systems; Rabindranath Dutta/Austin/IBM
Submitted Date	▮▮▮▮▮▮▮▮▮
Owning Division	TIV
Incentive Program	
Lab	
Technology Code	
PVT Score	40

Inventors with a Blue Pages entry
Inventors: David Kumhyr/Tivoli Systems, Peg MacPhail/Tivoli Systems@Tivoli Systems

Inventor Name	Inventor Serial	Div/Dept	Inventor Phone	Manager Name
> Kumhyr, David B.	834212	46/8VUA	N/A	Rojas, F.X. (Frank)
MacPhail, M.G. (Peg)	990022	46/1X9A	436-1464	Sweitzer, J.W. (John)

> denotes primary contact

Inventors without a Blue Pages entry

IDT Selection
*Main Idea
To view the main idea for this disclosure, click on this doclink ---> 🗎 (If you are prompted to enter a server name, please enter D01DB016)

*Critical Questions (Questions 1-9 must be answered in English)
Patent Value Tool (Optional - this may be used by the inventor and attorney to assist with the evalu
Evaluation

Page 1

Main Idea for disclosure AUS8-2000-0539 - continued

Main Idea for Disclosure AUS8-2000-0539
Prepared for and/or by an IBM Attorney - IBM Confidential

Archived On: ▉▉▉▉▉▉▉▉▉▉▉▉

Title of disclosure (in English)
Conversational convergence software

Idea of disclosure
1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.
Merging the technologies of the chat room, instant messenger, email and web forum. Each individual component here is a method of exchanging information (groupware) that are focused on a slightly different paradigm of information exchange or conversation. Mostly divided by response time and user role.

Chat rooms are akin to a meeting, instant messaging is like a phone call, email is akin to a memo or letter and forums are like a moderated and categorised discussion. All serve different purposes and have differing strengths, all are misused to attempt to stretch the medium to act like another.

I propose the merging of all of the function in one product that would enable the conversation holders to move to another conversation style or domain as the need arose.

2. How does the invention solve the problem or achieve an advantage,(a description of "the invention", including figures inline as appropriate)?
Enable the flow of conversation to move into using the medium that most suits the style of the discussion. It becomes a better business model for solveing problems remotely on line.

3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?
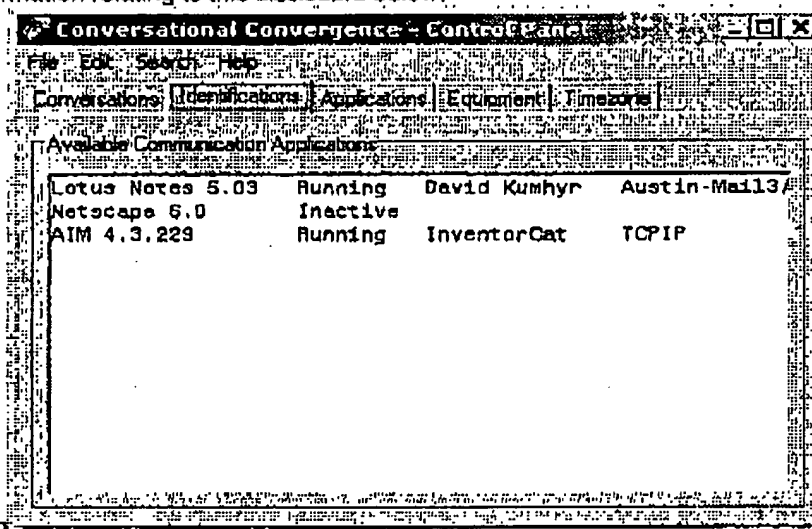Yes, but each in the individual area of communications, not almagamated.

4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.
No

AUSS-2000-0539 Conversational co...ergence software - continued

Search Information
Search Office Information
Final Decision
Post Disclosure Text & Drawings
Enter any additional information relating to this disclosure below:

```
Conversational Convergence - Control Panel            _ □ X
File   Edit   Search   Help

Conversations  Identifications  Applications  Equipment  Timezone

Available Communication Applications

Lotus Notes 5.03      Running    David Kumhyr    Austin-Mail3/
Netscape 6.0          Inactive
AIM 4.3.229           Running    InventorCat     TCPIP
```

CCS.ppt CCSPropsalA.pp

Ideas/splits:

CAT Brokering site
One time certificates for membership authentication by role

Idea	Variations	Applications
ID set		CCS basic idea of switching communication application
	Roles	Tailor communications based on Role • Who must be there • Level of interest • Field of interest • Actions allowed Delegation of role Policy and rules based on role Assign a role to a set of ids
	Permissions	Tailor communications based on permissions • Level of trust • Level of interest • Field of interest • Actions allowed Delegation of permissions along with role - perhaps a subset when delegated Permissions based on policy and rules, roles Assign permissions to a set of ids
	Nesting	Nest sets of ids Nest permissions
	Aggregation	Aggregate sets of ids

Page 3

IBM Confidential   Printed ▬▬▬▬▬

AUS8-2000-0539 Conversational convergence software - continued

		Aggregate based on role
	Certificate to join	3rd party
Availability determination		Determine current availability all members for the set of communications services Track down an individual - know what commo works at this momment for them
	Delegation	
	Next available window	
Categorize communications service		Scatter/Gather - using multiple communication mechanisms • "teleport" • "resting?" • redundant • insurance • security • service level

Here is our breakdown of the separate filings under CCS/CAT - I'll append this note into the applicatoin.

Communications Convergence (Communications Aggregation Technique - CAT)
A software application that enables swithcing between various communications mechanisms as a user chooses as their communication needs change. i.e. switching from email to instant messaging on the fly.

CAT Brokering Web/Server Site
A brokering web server site for enabling users to gather and select and switch between communications methods and channels.

Communications Switching Object
An object (ID set) that allows the gathering of different user IDs and optionally passwords for use with CAT Communications Switching Object.

Aggregation of Communications Groups
Aggregation of communications object IDs into groups (extended functionality)

Nesting of Communications
Nesting sets of IDs and permissions

Automatic Selection of Efficient or Appropriate Communications Channel
Automaticaly select the most efficient or communications channel or means - or select the appropriate chanel for the level of service or security specified by role and permissions.

Tailoring of Communications Based on Permissions and Role
Tailoring the communications chanel based on permissions and role (trust, interest, actions)

Scatter/Gather Using Multiple Communications Channels
Scatter/Gather using multiple communications channels for redundancy, security, insurance etc.

Certification for Joining Communications Chanel at a Trust Level
Certification for joining communications chanel or group at a specified trust level.

Aggregation of Trust Certificates
Aggregation of trust certificates for joining or promoting trust level.

AUS8-2000-0539 Conversational co... ...gence software - continued

Availability determination and next availability window
Availability determination of a cummunications time and determining the next availability window

(Form Revised 12/17/97)

Page ∦ 5   IBM Confidential   Printed▬▬▬▬▬▬▬

PAGE 22/27 * RCVD AT 9/2/2005 3:09:29 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/24 * DNIS:2738300 * CSID:512 703 1250 * DURATION (mm-ss):15-00

AUS8-2000-0539 Conversational convergence software - continued

Doug A Wood/Tivoli Systems	
Peg MacPhail/Tivoli Systems	
Rabindranath Dutta/Austin/IBM	

Response Due to IP&L : ▬▬▬▬

*Main Idea

To view the main idea for this disclosure, click on this doclink ---> 📄 (If you are prompted to enter a server name, please enter D01DB016)

*Critical Questions (Questions 1-9 must be answered in English)

---

*Question 1
On what date was the invention workable? ▬▬▬▬ Please format the date as MM/DD/YYYY
(Workable means i.e. when you know that your design will solve the problem)

---

*Question 2   ○ Yes
Is there any planned or actual publication or disclosure of your invention to anyone outside   ● No
IBM?

If yes, Enter the name of each publication or patent and the date published below.
Publication/Patent:
Date Published or Issued:

Are you aware of any publications, products or patents that relate to this invention?   ○ Yes
                                                                                         ● No

If yes, Enter the name of each publication or patent and the date published below.
Publication/Patent:
Date Published or Issued:

---

*Question 3   ○ Yes
Has the subject matter of the invention or a product incorporating the invention been sold,   ● No
used internally in manufacturing, announced for sale, or included in a proposal?

Is a sale, use in manufacturing, product announcement, or proposal planned?   ○ Yes
                                                                               ● No

If Yes, identify the product if known and indicate the date or planned date of sale, announcements, or
proposal and to whom the sale, announcement or proposal has been or will be made.
        Product:
Version/Release:
        Code Name:
        Date:
        To Whom:
If more than one, use cut and paste and append as necessary in the field provided.

---

*Question 4   ○ Yes
Was the subject matter of your invention or a product incorporating your invention used in   ● No
public, e.g., outside IBM or in the presence of non-IBMers?

If yes, give a date.   Please format the date as MM/DD/YYYY

---

*Question 5   ○ Yes
Have you ever discussed your invention with others not employed at IBM?   ● No

If yes, identify individuals and date discussed. Fill in the text area with the following information, the

---

Page 2 6   IBM Confidential   Printed ▬▬▬▬▬▬

AUS8-2000-0539 Conversational convergence software - continued

names of the individuals, the employer, date discussed, under CDA, and CDA #.

| *Question 6 Was the invention, in any way, started or developed under a government contract or project? | ○ Yes ● No ○ Not sure |
| If Yes, enter the contract number | |

*Question 7 Was the invention made in the course of any alliance, joint development or other contract activities? If Yes, enter the following:	○ Yes ● No ○ Not Sure
Name of Alliance, Contractor or Joint Developer	
Contract ID number	
Relationship contact name	
Relationship contact E-mail	
Relationship contact phone	

| *Question 8 Have you, or any of the other inventors, submitted this same invention disclosure or similar invention disclosure previously? | ○ Yes ● No |
| If Yes, please provide disclosure number below: | |

| *Question 9 Are you, or any of the other inventors, aware of any related inventions disclosures submitted by anyone in IBM previously? | ○ Yes ○ No |
| If Yes, please provide the docket or disclosure number or any other identifying Information below: | |

Question 10
What type of companies do you expect to compete with inventions of this type? *Check all that apply.*
- [ ] Manufacturers of enterprise servers
- [ ] Manufacturers of entry servers
- [ ] Manufacturers of workstations
- [ ] Manufacturers of PC's
- [ ] Non-computer manufacturers
- [ ] Developers of operating systems
- [x] Developers of networking software
- [x] Developers of application software
- [ ] Integrated solution providers
- [x] Service providers
- [x] Other (Please specify below)

Ideal groupware product to extend Lotus Notes

Question 11
If the invention relates to a product or service that is outside the scope of your business unit, please recommend IBM business unit(s), IBM location(s) or individual(s) within IBM that you think would provide a good evaluation of your invention:

Page 7   IBM Confidential   Printed ▬▬▬▬▬▬

PAGE 24/27 * RCVD AT 9/2/2005 3:09:29 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/24 * DNIS:2738300 * CSID:512 703 1250 * DURATION (mm-ss):15-00

Idea Splits

- Software application that enables switching between communications mechanisms as user chooses as communication needs change.

- A brokering web server site for enabling users to gather and select and switch between communications methods and channels.

- An object (ID set) that allows the gathering of different user IDs and optionally passwords for use with Communications Switching.

- Scatter/Gather using multiple communications channels for redundancy, security, insurance etc.

- Aggregation of communications object IDs into groups (extended functionality)

- Nesting sets of IDs and permissions.

- Representation of availability of services, equipment and persons.

- Automaticaly select the most efficient or communications channel or means - or select the appropriate chanel for the level of service or security specified by role and permissions.

- Tailoring the communications chanel based on permissions and role (trust, interest, actions)

- Certification for joining communications chanel or group at a specified trust level.

- Aggregation of trust certificates for joining/order/promoting trust level.

Idea   Variations Applications

Availability determination   Determine current availability all members for
the set of communications services

Track down an individual - know what commo works at this momment for them

  Delegation

  Next available window

Categorize communications service   Scatter/Gather - using multiple
communication mechanisms

  "teleport"

  "resting?"

  redundant

  insurance

  security

service level

Tivoli Confidential

Scatter/Gather

A "scatter/gather" communications capability for the CCS where the user identifies the preferred characteristics of each CCS-enabled communications service.

CCS service	Real-time chat	e-mail	small attachments	large attachments
yahoo mail	no	yes	yes	no
ISP mail	yes-P	yes	yes	no
AOL messenger	yes	no	no	no
ISP FTP	no	yes	yes	
newsgroup	no	yes	yes	no

The user appears to be using the CCS main facility and can send attachments while chatting or chat while sending an email. The CCS main facility selects the preferred chat - one that fits the user set - and then selects the appropriate attachment forwarding mechanism depending upon the size and the user-set availability. The recipient's CCS-enabled services gives the chat and attachment to the CCS main facility and it looks to the recipient as if there was just one communication application involve

Page 10